ubc science co-op
T: 604.822.9677 | F: 604.822.9676 | science.coop@ubc.ca | www.sciencecoop.ubc.ca

Isaac Cheung

cheungis.github.io
isaac.cheung@hotmail.com | 604.500.3129

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA

BSc in Computer Science
3rd Year Standing
Vancouver, BC
September 2018 - April 2022

GPA: 3.83 / 4.33
Major GPA: 4.00 / 4.33

LINKS

GitHub:// **github.com/cheungis**
LinkedIn:// **linkedin.com/in/cheungis**
Website:// **cheungis.github.io**

SKILLS

LANGUAGES

Python • Java • C • C++ • C# • Matlab
TypeScript • JavaScript • HTML • LaTeX
Haskell • Prolog • SQL Server

VERSION CONTROL SYSTEMS

Git • GitHub

TESTING

JUnit

OTHER TECHNICAL SKILLS

React • Node.js • Three.js • Swing
Pygame • CSS • Android Studio

COURSEWORK

COMPUTER SCIENCE

Algorithm Design and Analysis
Computer Graphics
Functional and Logic Programming
Data Structures and Algorithms
Computer Systems
Software Construction
Formal Systems and Logic
Foundations of Computing

MATHEMATICS & STATISTICS

Probability
Linear Algebra
Calculus I, II, III
Applied Statistics

EXPERIENCE

BGC ENGINEERING | Web & Mobile Development Intern

Jan 2020 – May 2020 | Vancouver, BC Canada

- Worked on Cambio, BGC Engineering's geohazard risk management software.
- Added functionality on map identify tool, enabling the tool to select polygon geometry based target objects.
- Designed and built 2 new helper services which solves and manages certain concurrency issues related to the web form logic.
- Created new React web forms and web form components to support engineers in the field, allowing them to electronically document inspections and remotely sync the data on various hazard sites.
- Fixed numerous bugs in both front and back end of the code base in TypeScript, C#, and SQL Server, decreasing the Jira backlog by over 10%.

PROJECTS

SOUNDBOARD | July 2019

- Built a soundboard app using Android studio.
- Employs event listeners implemented with the observer design pattern.
- Created a desktop version using Java Swing.

DISCORD BOTS | January 2019

- Developed 2 Discord bots in JavaScript with Discord JS, a node.js module.
- Designed with best practices in mind, such as dynamic command handling.
- Bot #1 generates links to allow for ease of access to websites.
- Bot #2 automates the process of mass deleting server messages.
- Bot #2 allows for the option of searching and filtering messages to include or exclude attributes, such as the message author.

LEAGUE OF LEGENDS PROFILE ANALYZER | September 2018

- Extracts data from players and store them in profiles to analyze and compare, built with Object Oriented Programming in Java.
- Incorporated design patterns to solve problems encountered during development including the iterator and observer design patterns.
- Unit testing was done with JUnit to ensure the correctness of code.
- GUI built with Java Swing.

CLASSIC GAMES | October 2017

- Recreated classic games using Object Oriented Programming in Python.
- Games include pong, tic tac toe and a memory game.
- Designed with OOP and OOD paradigms, simplifying modification and expansion of content for the games that were recreated.
- GUI Designed and implemented through the pygame library.